

Appln. No. 09/870,496
Reply to the Office Action of August 26, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (Previously Amended) A glass for a substrate, which consists essentially of:
in terms of weight percent

SiO_2 40 to 59 %,

Al_2O_3 5 to 20 %,

B_2O_3 0 to 8 %,

MgO 0 to 10 %,

CaO 0 to 12 %,

SrO 10.6 to 20 %,

BaO 0 to 2 %,

ZnO 0 to 4 %,

Li_2O 0 to 2 %,

Na_2O 0 to 10 %,

K_2O 0 to 8 %,

TiO_2 1 to 10 %, and

ZrO_2 0 to 5 %,

wherein $\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO}$ is at least 15 %;

$\text{Al}_2\text{O}_3 + \text{TiO}_2$ is at least 11 %;

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$TiO_2 + ZrO_2$ is at least 2.3 %; and which has an average linear expansion coefficient of at least $70 \times 10^{-7}/^{\circ} C$ within the range of 50 to $350^{\circ} C$.

Claim 2. (Canceled)

Claim 3. (Previously Amended) The glass for a substrate according to Claim 1, wherein $BaO + Li_2O + Na_2O + K_2O$ is at most 14 %.

Claim 4. (Canceled)

Claim 5. (Previously Amended) The glass for a substrate according to Claim 3, wherein $Li_2O + ZnO$ is at most 2 %.

Claim 6. (Previously Amended) The glass for a substrate according to Claim 1, wherein $Li_2O + ZnO$ is at most 2 %.

Claim 7. (Canceled)

Claim 8. (Previously Amended) The glass for a substrate according to Claim 1, which has a glass transition temperature of at least $600^{\circ} C$.

Claim 9. (Previously Amended) A glass substrate made of the glass for a substrate as defined in Claim 1, wherein the number of attachments having sizes of at least $10 \mu m$ present on the surface of the glass substrate held in a steam atmosphere at $120^{\circ} C$ under 2 atm for 20 hours, is not more than $1/cm^2$, and the number of attachments having sizes ranging from $1 \mu m$ to less than $10 \mu m$ so present, is not more than $10^5/cm^2$.

Claim 10. (Canceled)

Claim 11. (Previously Amended) A glass substrate made of the glass for a substrate as defined in Claim 3, wherein the number of attachments having sizes of at least $10 \mu m$ present on the surface of the glass substrate held in a steam atmosphere at $120^{\circ} C$ under 2 atm for 20

hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes ranging from 1 μm to less than 10 μm so present, is not more than $10^5/\text{cm}^2$.

Claim 12. (Canceled)

Claim 13. (Previously Amended) A glass substrate made of the glass for a substrate as defined in Claim 5, wherein the number of attachments having sizes of at least 10 μm present on the surface of the glass substrate held in a steam atmosphere at 120° C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes ranging from 1 μm to less than 10 μm so present, is not more than $10^5/\text{cm}^2$.

Claim 14. (Previously Amended) A glass substrate made of the glass for a substrate as defined in Claim 7 6, wherein the number of attachments having sizes of at least 10 μm present on the surface of the glass substrate held in a steam atmosphere at 120° C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes ranging from 1 μm to less than 10 μm so present, is not more than $10^5/\text{cm}^2$.

Claim 15. (Previously Amended) A glass substrate made of the glass for a substrate as defined in Claim 8, wherein the number of attachments having sizes of at least 10 μm present on the surface of the glass substrate held in a steam atmosphere at 120° C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes ranging from 1 μm to less than 10 μm so present, is not more than $10^5/\text{cm}^2$.

Claim 16. (Previously Added) The glass for a substrate according to Claim 1, wherein CaO is substantially excluded from the components of the glass.

Claim 17. (Withdrawn) A magnetic disc, which comprises:

an undercoat layer, a magnetic layer and a protective layer formed on a glass

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substrate, which consists essentially of, in terms of weight percent:

SiO_2 40 to 59 %,

Al_2O_3 5 to 20 %,

B_2O_3 0 to 8 %,

MgO 0 to 10 %,

CaO 0 to 12 %,

SrO 2 to 20 %,

BaO 0 to 2 %,

ZnO 0 to 4 %,

Li_2O 0 to 2 %,

Na_2O 0 to 10 %,

K_2O 0 to 12 %,

TiO_2 0 to 10 %, and

ZrO_2 0 to 5 %,

wherein $\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO}$ is at least 15 %.

Claim 18. (Withdrawn) The glass substrate according to Claim 17, wherein $\text{Al}_2\text{O}_3 + \text{TiO}_2$ is at least 11 %.

Claim 19. (Withdrawn) The glass substrate according to Claim 17, wherein $\text{BaO} + \text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O}$ is at most 14 %.

Claim 20. (Withdrawn) The glass substrate according to Claim 17, wherein $\text{Li}_2\text{O} + \text{ZnO}$ is at most 2 %.

Claim 21. (Withdrawn) The glass substrate according to Claim 17, which has an

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average linear expansion coefficient of at least $70 \times 10^{-7}/^{\circ}\text{C}$ within a range of 50 to 350° C .

Claim 22. (Withdrawn) The glass substrate according to Claim 17, which has a glass transition temperature of at least 600° C .

Claim 23. (Withdrawn) A glass substrate made of the glass for a substrate as claimed in Claim 17, wherein the number of attachments having sizes of at least $10 \mu\text{m}$ present on the surface of the glass substrate held in a steam atmosphere at 120° C under 2 atm for 20 hours, is not more than $1/\text{cm}^2$, and the number of attachments having sizes ranging from $1 \mu\text{m}$ to less than $10 \mu\text{m}$ so present, is not more than $10^5/\text{cm}^2$.

Claim 24. (Canceled)

Claim 25. (New) The glass for a substrate according to Claim 1, wherein $\text{Al}_2\text{O}_3 + \text{TiO}_2$ is at least 13 %.

Claim 26. (New) The glass for a substrate according to Claim 25, wherein $\text{Al}_2\text{O}_3 + \text{TiO}_2$ is at least 15 %.

Claim 27. (New) The glass for a substrate according to Claim 26, wherein $\text{Al}_2\text{O}_3 + \text{TiO}_2$ is at least 16 %.